

CDF Computing Status

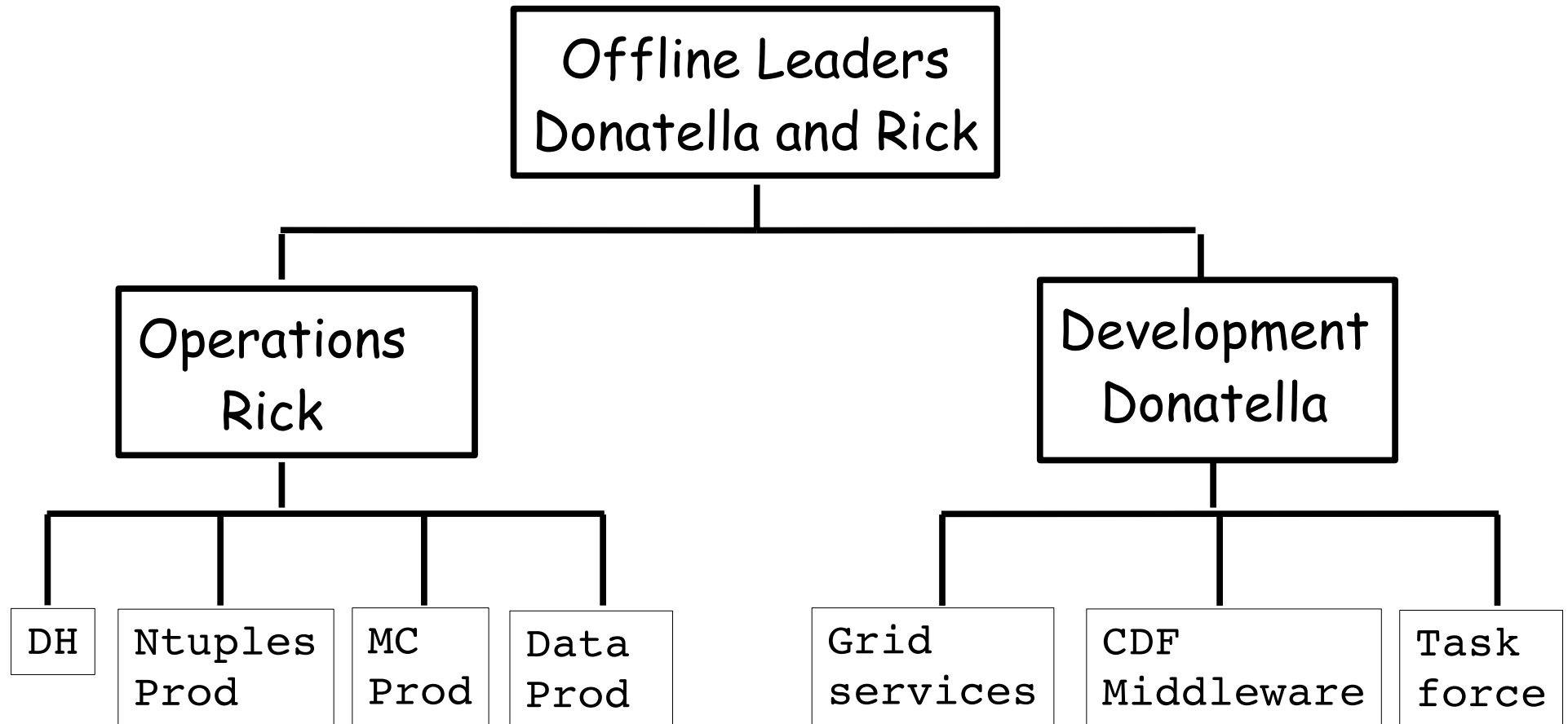
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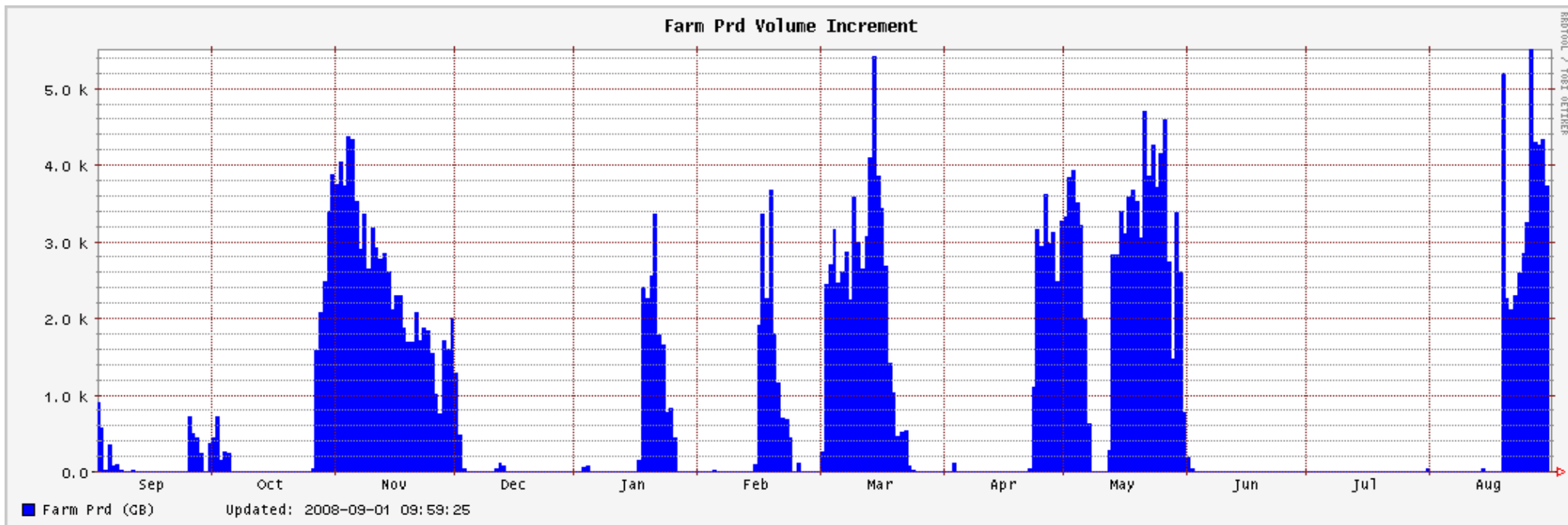
Outline

- CDF Computing Status
- Configuration and performances in Italy
- Requests for 2009

New Offline Group organization

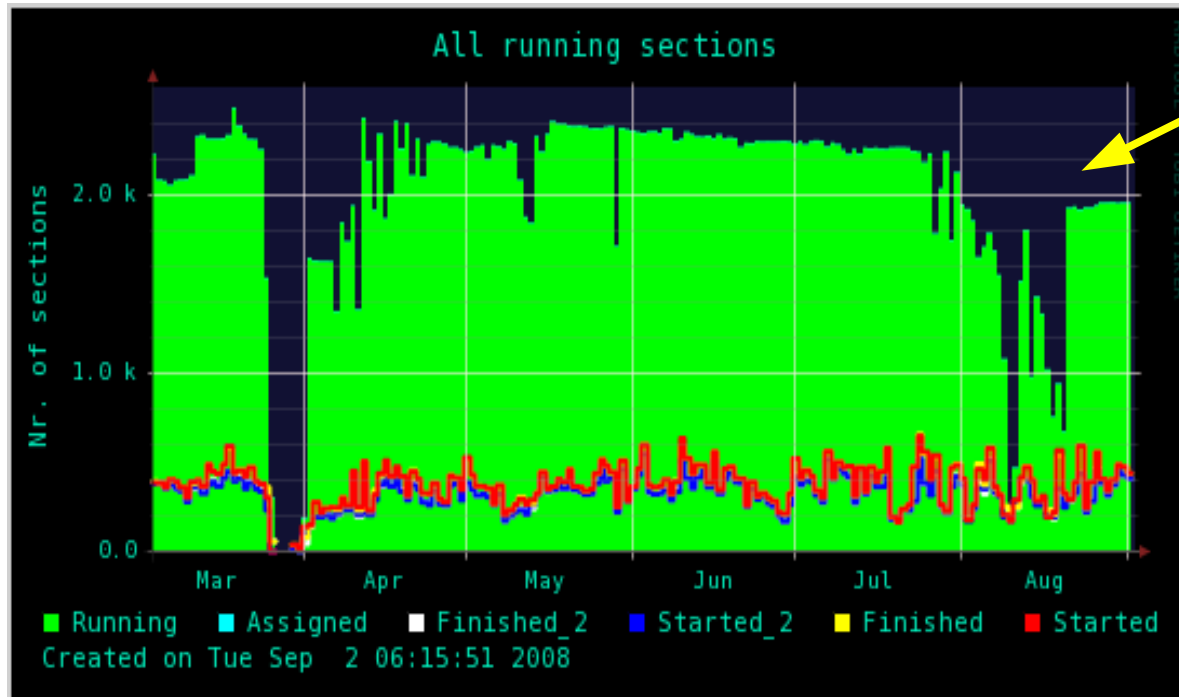


Data Processing



Improvements on ProductionExe recovered the slowness due increase of event size for high lumi

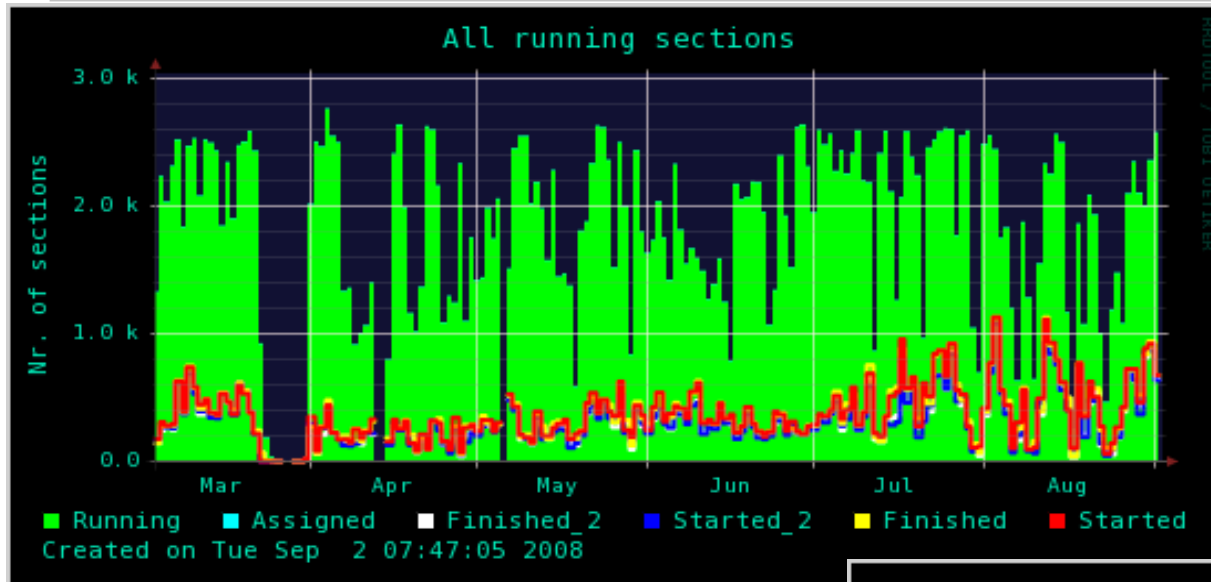
Data Processing



CAF Running jobs:
decreasing number of
slots due to CAF
decommissioning

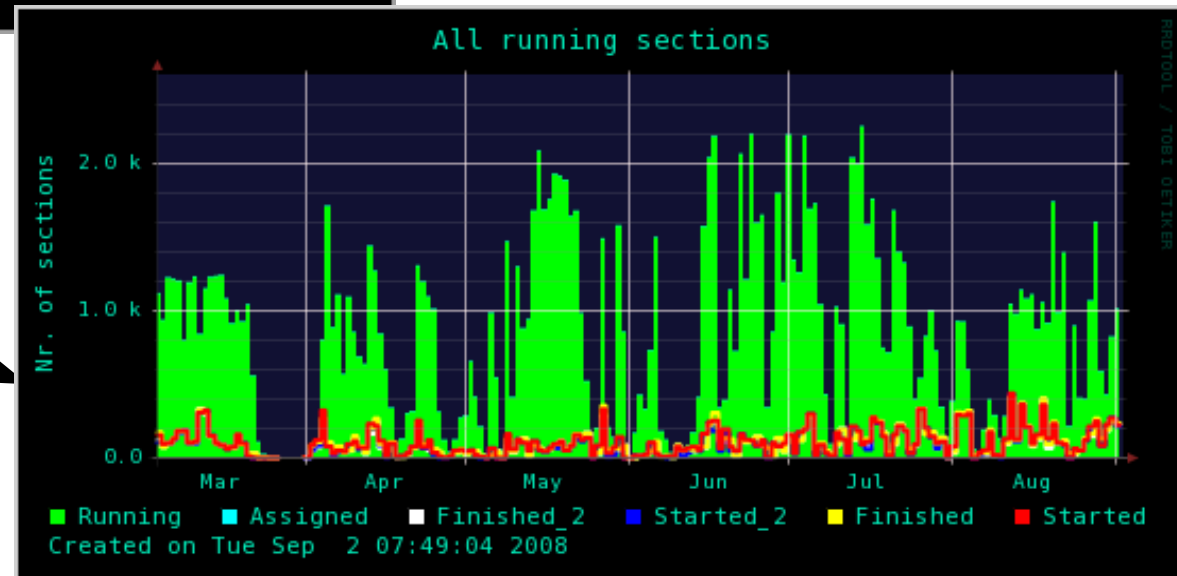
Started to move users

Fermi-Grid and OSG usage



Fermilab T1 running jobs

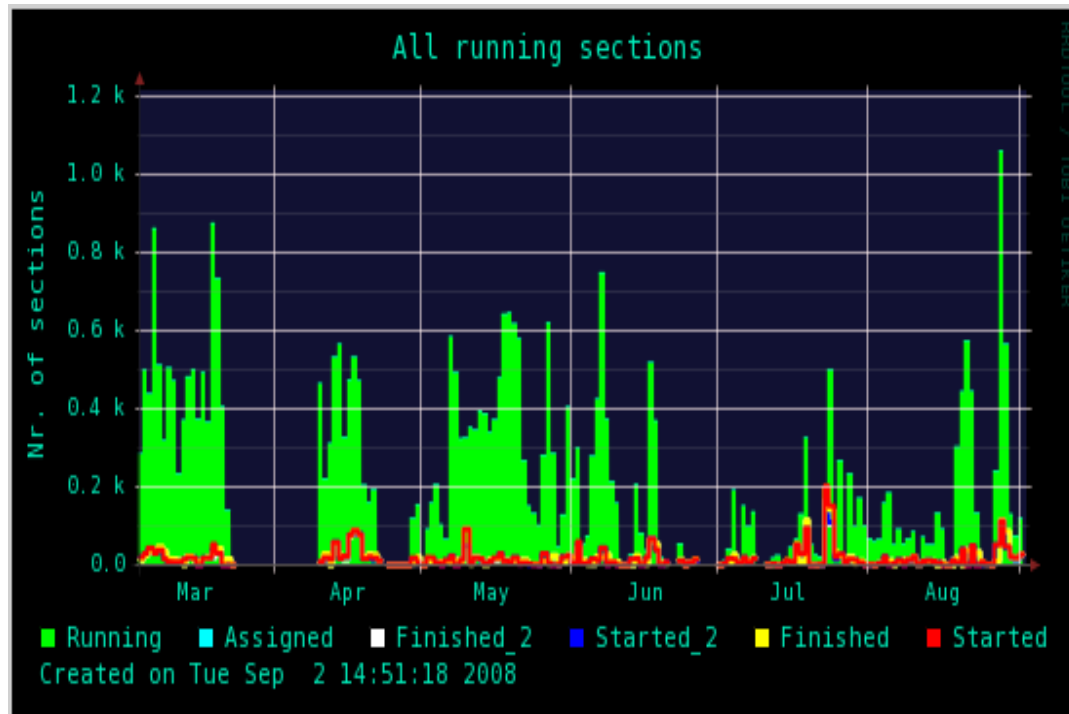
OSG running jobs



These plots show that we must improve the usage for production and users

Sep. 5th 2008

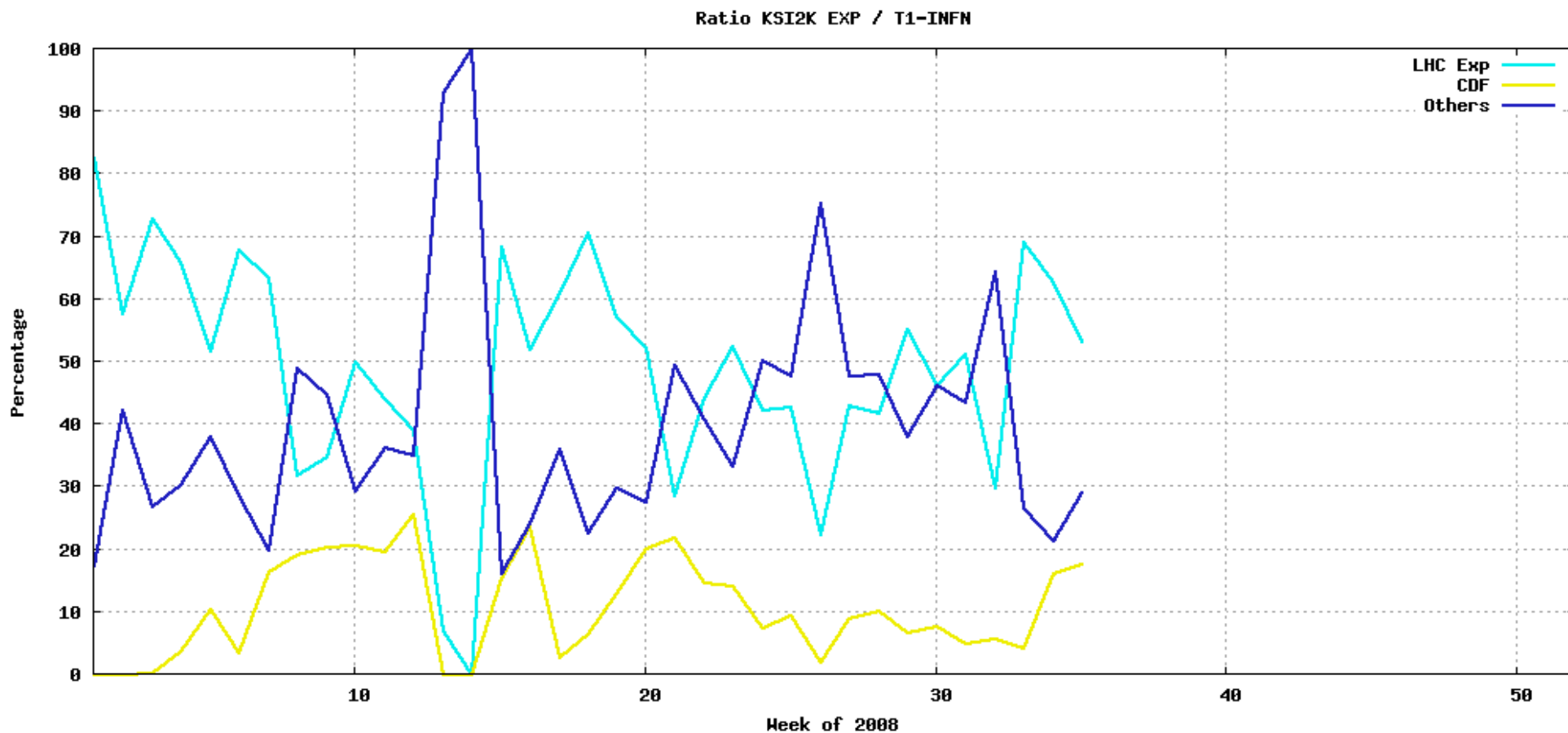
Computing in Italy



Very long downtime due to security incident.
Due to several reasons
~2 months were needed
to restart again.
Now very stable conditions.

During the shutdown we were accessing CNAF resources via LcgCAF, so the usage was not zero.

Tier1 Usage



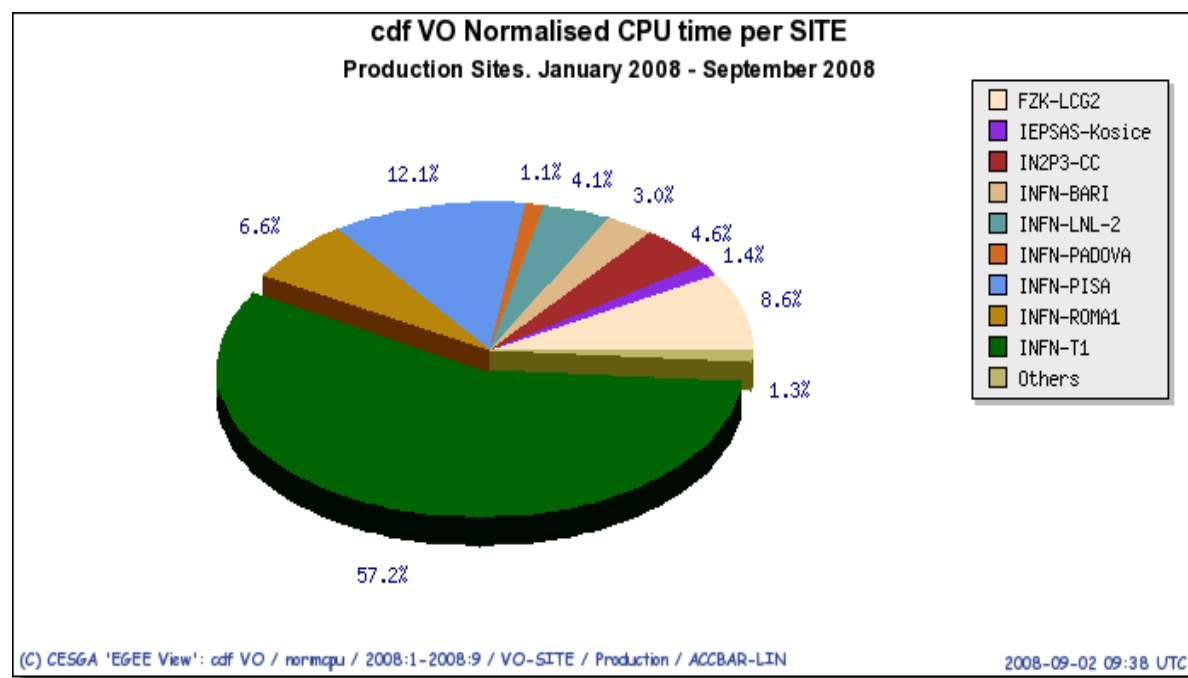
LcgCAF configuration & usage

Maintained by Gabriele

Accessed Sites

Site	Country
CNAF-T1	Italy
INFN-Padova	Italy
INFN-Bari	Italy
INFN-Legnaro	Italy
INFN-Roma1	Italy
INFN-Roma2	Italy
INFN-Pisa	Italy
FZK-LCG2	Germany
IN2P3-CC	France
IEPSAS	Slovakia
IFAE	Spain
PIC	Spain
UKI-LT2-UCL-HE	UK
Liverpool	UK

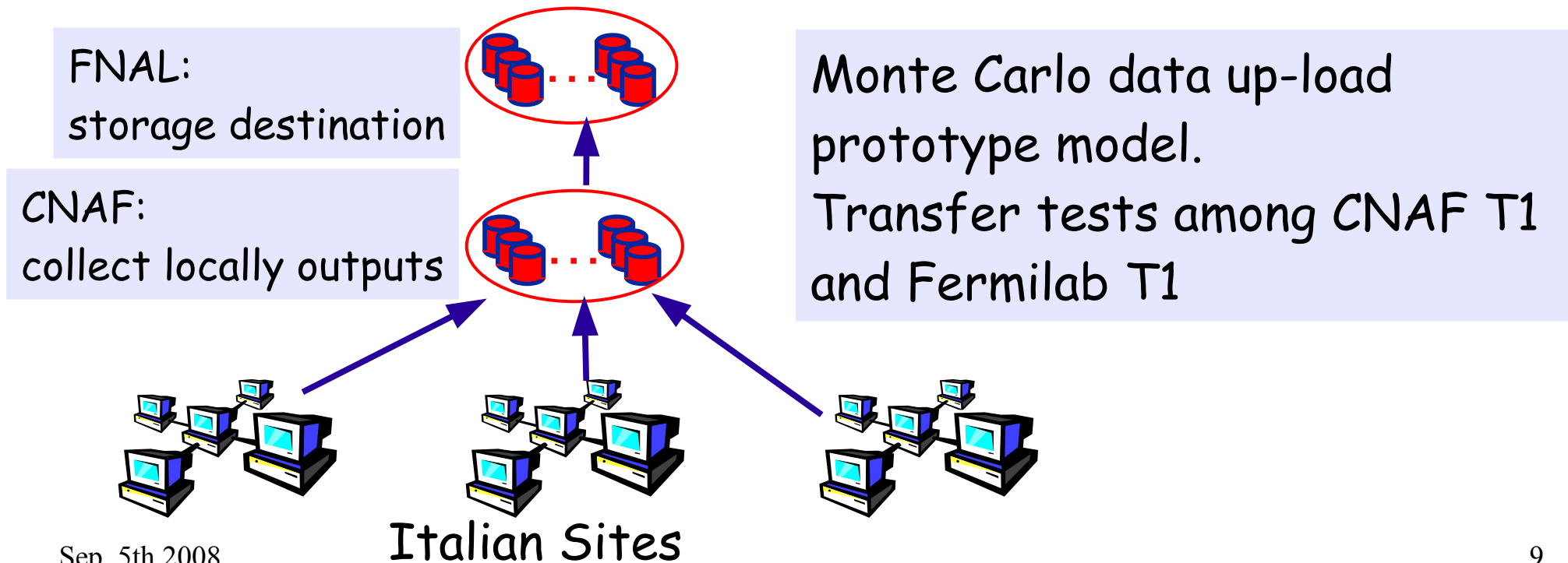
Need to improve the usage outside Italy



In particular need to work on data transfer, next slide

Data Movement: In Progress

- Current mechanism leads to inefficient use of remote WN
- A framework is needed to ship Monte Carlo Data between remote computing sites and Fermilab and vice-versa for data
- New mechanism has to be interfaced with **SAM**, the Fermilab Run II Data Handling Framework for CDF, D0 and Minos.



Request for 2009

	2007-Q4			2008-Q4			2009-Q4			2010-Q4			
	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	
BaBar	680	200	0	1215	350	0	1215	350	0	1215	350	0	
CDF	820	100	15	1161	170	15	1290	220	15	1420	270	15	
Totale	1500	300	15	2376	520	15	2505	570	15	2635	620	15	
Acquistando in due anni			TOT €	540			80			62			682
Costo CPU				188			18			14			221
Costo Disco				352			62			48			462
Costo Nastro				0			0			0			0
Acquistando nell'anno in corso				448			69			54			572
Costo CPU				140			15			13			169
Costo Disco				308			54			41			403
Costo Nastro				0			0			0			0
	2007-Q4			2008-Q4			2009-Q4			2010-Q4			
	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	CPU (kSi2k)	Disco (TB-N)	Nastro (TB)	
LHCb TIER2	0	0	0	600	0	0	1200	350	0	1700	350	0	

Secondo le tabelle presentate in gruppo 1 e approvate CDF @CNAF in 2009
 cpu: 18 Keuro disk: 62 Keuro

Assunzione: nel 2008 si avra' cio' che GR1 ha pagato